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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/038,163	01/02/2002	Mario Blaum	TUC920010036US1	7818
	46917 7	590 09/20/2005		EXAM	INER
KONRAD RAYNES & VICTOR, LLP. ATTN: IBM37				TSE, YOUNG TOI	
	315 SOUTH B	EVERLY DRIVE, SUI	TE 210	ART UNIT	PAPER NUMBER
	BEVERLY HI	LLS, CA 90212		2637	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		1 K
	Application No.	Applicant(s)
_	10/038,163	BLAUM ET AL.
Office Action Summary	Examiner	Art Unit
	YOUNG T. TSE	2637
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
tatus		
 1) Responsive to communication(s) filed on <u>02 J</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under the practice under the practice. 	s action is non-final. Ince except for formal ma	
Disposition of Claims		
 4) Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-38 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>02 January 2002</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	e: a) accepted or b) accepted or b) accepted or b) accepted in abeyation is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Its have been received in a Inity documents have been In (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 042203,012004,06016♥. Patent and Trademark Office OL-326 (Rev. 7-05)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) Part of Paper No./Mail Date 09182005

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because the numeral "6" of the read formatter shown in Figure 1 should be labeled as "36" as mentioned in paragraph [0016], line 15. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version. of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: the reference sign "26" shown in Figure 1 is not mentioned in the

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specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: paragraphs [0001] and [0030], the copending applications need to be updated including the filing date; paragraph [0013], line 7, the word "and" should be deleted; paragraph [0015], lines 6 and 14, "host 2" and "converts convert" should be "tape drive 4" and "converts", respectively; paragraphs [0018] and [0037], "the tape medium 8" is not understood; paragraph [0020], line 1, "2" should be "22"; paragraph [0022], line 6, "PLL 20", is not understood; paragraph [0023], line 9, "decoder 40" is not understood and line 11, "68" should be "61"; paragraph [0026], line 4, paragraph [0028], line 11, and paragraph [0030], line 1, "PLL" should be "RLL". Appropriate correction is required.

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Claim Objections

4. Claims 1-38 are objected to because of the following informalities:

In claim 1, line 3, "a binary" should be "the binary", line 5, "the data stream" should be "the binary data stream", line 6, "a encoded" should be "an encoded", and line 6, "data" should be "data stream". Also see claims 13 and 27.

In claim 3, line 2, ""10." should be "10.". Also see claims 15 and 29.

In claim 5, line 3, "further" should be "stream". Also see claims 17 and 31.

In claim 6, line 5, "binary data" should be "data stream". Also see claims 18 and 32.

In claim 8, line 2, "data" should be "data stream". Also see claims 20 and 34.

In claim 10, lines 1 and 3, "at an" and "binary data" should be "at the" and "data stream", respectively. Also see claims 22 and 36.

In claim 25, line 2, "a Input/Output" should be "an Input/Output (I/O) device".

Wherein claims 2, 4, 7, 11-12, 14, 16, 19, 23-24, 26, 28, 30, 33, and 37-38 depend upon claims 1, 13 and 27.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 3-5, 8-11, 15-17, 20-23, 29-31 and 34-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 3, 8, 15, 20, 29 and 34, "VFO" and "m/n" are undefined.

In claims 8-11, Applicants are requested to use a consistent term for the rate.

Also see claims 20-23 and 34-37.

In claim 11 (lines 2-3), claim 23 (lines 2-3) and claim 37 (lines 2-3), the phrase "the m/n rate encoded bit sequence" lacks antecedent basis.

Wherein dependent claims 4-5, 16-17 and 30-31 depend upon claims 3, 15 and 29.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Blaum et al..

Blaum et al. (US patent 5,999,110) clearly discloses a block diagram of a tape driver in Figure 2 corresponding to Figure 1 of the instant application.

Figure 3 shows a diagrammatic illustration of the recording or channel format of encoded data sets employing the synchronization patent corresponding to Figure 2 of the instant application.

Figures 4 and 5 are tables representing the Hamming characteristics of the synchronization pattern with respect to a concatenated VFO pattern of Figure 3.

With respect to claims 1, 13 and 27, the block elements of Figure 2 clearly correspond to the claimed subject matter of the apparatus and method claims. For example, the write formatter 45 receives a binary data stream; the sync generator 46 generates a synchronization mark having at least one isolated peak into at least one point in the data stream; the RLL encoder forms an encoded data stream by concatenating the synchronization mark with the received binary data; and the sync detector 48 during decoding, detects the synchronization mark based on error propagation occurring adjacent to the at least one isolated peak of the synchronization mark.

The claimed subject matters of claims 2-12, 14-26 and 28-38 are either shown in the tape driver shown in Figure 2 or shown in the channel format of encoded data sets employing the synchronization patent in Figure 3.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Katayama et al., Ashley et al., and Shim et al. are related to

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apparatus and method for recoding and/or reproducing data recorded in a tape recorder or a record medium.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Thursday and alternative Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The Central FAX Number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YOUNG T. TSE Primary Examiner Art Unit 2637